

App. No.: 10/658,958  
Docket No.: CFA00006US

**Amendment(s) to the Claim(s):**

The listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (original) An image display device having a display unit, comprising:  
input/output means for transferring image data input from the image display device disposed at an upstream location to an image display device disposed at a downstream location;  
acquisition means for acquiring resolution information associated with the image display device disposed at the downstream location;  
generation means for generating resolution information on the basis of the resolution information acquired by the acquisition means and a resolution of the display unit; and  
first storage means for storing the generated resolution information for supply to the image display device disposed at the upstream location.
2. (currently amended) An image display device according to claim 1, further comprising  
communication processing means for performing DDC (Display Data Channel) communication with an external device; and  
a memory for storing EDID (Extended Display Identification Data) information transformed in the DDC communication, wherein the acquisition means acquires resolution information using the communication processing means and where

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the first storage means stores the resolution information generated by the generation means by rewriting a corresponding item of the EDID information in the memory.

3. (original) An image display device according to claim 1, further comprising direction detection means for detecting whether image display devices connected at downstream locations are arranged in a vertical or horizontal direction, wherein the generation means generates the resolution information by cumulatively adding the resolution of the display unit with the resolution information acquired by the acquisition means in the direction determined by the direction detection means.

4. (original) An image display device according to claim 1, further comprising detection means for detecting a location of a present image display device in the multidisplay system;  
determination means for determining which part of the image data should be displayed by the present display unit on the basis of the location detected by the detection means; and  
display control means for displaying the part of the image data.

5. (original) An image display device according to claim 4, wherein the display control means determines the display scaling factor on the basis of the number of pixels of the part of the image data to be displayed and on the basis of the resolution of the display unit, converts the resolution of the part of the image data in accordance with the determined display scaling factor, and displays the part of the image data on the display unit.

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6. (currently amended) An image display device according to claim 4, wherein the detection means comprises:

second storage means for acquiring chain connection information indicating the manner in which further image display devices are chain-connected at downstream locations of the image display device, generating chain connection information associated with the present image display device on the basis of the acquired chain connection information, storing the generated chain connection information such that an image display device at an upstream location can acquire the chain connection information; and

third storage means for acquiring the total number of image display devices connected at downstream locations from the adjacent image display device at the downstream location and storing the total number of image display devices such that the image display device at the upstream location can acquire it, wherein the detection means determines the location of the present image display device in the multidisplay system on the basis of the chain connection information and the total number of image display devices.

7. (currently amended) An image display device according to claim 6, further comprising:

direction detection means for detecting whether image display devices connected at downstream locations are arranged in the vertical or horizontal direction, wherein the chain connection information includes information indicating the total number of image display devices chain-connected in the vertical direction and information indicating the total number of image display devices chain-connected in the horizontal direction.

8. (original) A multidisplay system including a plurality of image display devices according to claim 1, wherein the plurality of image display devices are connected to each

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other and a host computer is connected to an image display device at a most upstream location.

9. (currently amended) An image display method using an image display device having a display unit, the image display method comprising the steps of:

inputting image data from the image display device disposed at an upstream location and outputting the received image data to an image display device disposed at a downstream location;

acquiring resolution information from the image display device disposed at the downstream location;

generating resolution information on the basis of the resolution information acquired in the acquisition step and the resolution of the display unit; and

storing the generated resolution information for supply to the image display device disposed at the upstream location.

10. (currently amended) An image display method according to claim 9, further comprising the step of:

performing DDC communication with an external device, and storing EDID information obtained via the DDC communication.

11. (currently amended) An image display method according to claim 9, further comprising the step of:

detecting whether image display devices connected at downstream locations are arranged in the vertical or horizontal direction, wherein in the generation step, the resolution information is generated by cumulatively adding the resolution of the display unit with the

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resolution information acquired in the acquisition step in the direction determined in the direction detection step.

12. (currently amended) An image display method according to claim 9, further comprising the steps of:

detecting the location of the present image display device in the multidisplay system including all image display devices;

determining which part of the image data should be displayed by the present display unit on the basis of the location detected in the detection step; and

displaying the part, determined in the determination step, of the image data received in the input/output step on the display unit.

13. (currently amended) An image display method according to claim 12, wherein the displaying step includes the steps of:

determining the display scaling factor on the basis of the number of pixels of the part of the image data to be displayed and on the basis of the resolution of the display unit, converting the resolution of the part of the image data in accordance with the determined display scaling factor, and displaying the part of the image data on the display unit.

14. (currently amended) An image display method according to claim 12, wherein the detection step includes the steps of:

acquiring chain connection information indicating the manner in which further image display devices are chain-connected at downstream locations of the image display device, generating chain connection information associated with the present image display device on the basis of the acquired chain connection information, and storing the generated chain

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connection information such that an image display device at an upstream location can acquire the chain connection information;

acquiring the total number of image display devices connected at downstream locations from the adjacent image display device at the downstream location and storing the total number of image display devices such that the image display device at the upstream location can acquire it; and

detecting the location of the present image display device in the multidisplay system on the basis of the chain connection information and the total number of image display devices.

15. (currently amended) An image display method according to claim 12, further comprising the step of :

determining whether image display devices connected at downstream locations are arranged in the vertical or horizontal direction, wherein the chain connection information includes information indicating the total number of image display devices chain-connected in the vertical direction and information indicating the total number of image display devices chain-connected in the horizontal direction.

16. (currently amended) A display control apparatus for controlling an image display device having a display unit, comprising:

input/output means for transferring image data input from the image display device disposed at an upstream location to an image display device disposed at a downstream location;

acquisition means for acquiring resolution information associated with the image display device disposed at the downstream location;

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generation means for generating resolution information on the basis of the resolution information acquired by the acquisition means and the resolution of the display unit; and  
first storage means for storing the generated resolution information for supplying to the image display device disposed at the upstream location.

17. (currently amended) A display control apparatus according to claim 16, further comprising:

communication processing means for performing DDC communication with an external device; and

a memory for storing EDID information transformed in the DDC communication, wherein the acquisition means acquires resolution information using the communication processing means and where the first storage means stores the resolution information generated by the generation means by rewriting a corresponding item of the EDID information in the memory.

18. (currently amended) An image display method according to claim 10 further comprising the step of

where in the acquisition step, using a communication processor to acquire the resolution information is acquired using a communication processor; and

where in the storage step, the storing of the resolution information generated in the generation step, is accomplished by rewriting a corresponding item of the EDID information in the memory.